

CLAIMS

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
- 5 4. (Currently Amended) A portable refrigeration container including
a shaped base forming a palletised thermally insulated base including a base
seal mechanism and forklift fork receiving cavities allowing ready
transportability;
a dismantlable wall assembly able to be mounted on the base to form a
10 container volume, and engaging with the base sealing mechanism and including a
thermally insulated hinge type collapsible concertina configuration of side panels
with latch mechanism for defining a container volume therein;
a lid assembly able to cover the top of the container volume to provide an
enclosed volume and including a seal mechanism for engaging with the wall
15 assembly,
the portable refrigeration container further including a cooling system,
incorporated in one or more of the base, sides or lid enabling maintaining of the
enclosed container volume in a cooled state.
- 20 5. (Cancelled)
6. (Currently amended) A portable refrigeration container according to claim 4
wherein the cooling system includes a eutectic cooling system having a
eutectic plate able to be initially charged and used in location and capable of
25 maintaining a refrigerated space temperature for an extended time without the
need for any external power source.
7. (Cancelled)
- 30 8. (Currently amended) A portable refrigeration container according to claim 6
wherein the eutectic refrigeration system includes a eutectic material which

can be transported in flat light weight form and activated by immersion at remote site in activation liquid and charged by refrigeration means and used in location for extended time without the need for any external power source.

5 9. (Cancelled)

10. (Currently amended) A portable refrigeration container according to claim 4 wherein the cooling system includes a powered thermodynamic refrigeration system wherein a cooling side of the system is mountable in communication with the inside of the container volume and the heat dissipation side of the system is mountable in communication with the outside of the container volume.

11. (Currently amended) A portable refrigeration container according to claim 10 wherein the palletised thermally insulated base includes an integral battery compartment integrated within raised feet which allow forklift access for holding a battery and the integral cooling system, for cooling the container volume, and is powered at least partially by the battery allowing refrigeration for several days.

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12. (Cancelled)

13. (Currently amended) A portable refrigeration container according to claim 11 wherein the lid includes a solar panel for powering the cooling system or battery.

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14. (Cancelled)

15. (Cancelled)

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16. (Currently amended) A portable refrigeration container according to claim 10

including the wall assembly having hinged thermally insulated side panels with mitred(45) corners including seal mechanism in a concertina configuration which are designed to collapse flat and open to form a rectangular shaped container volume, and the lid is a thermally insulated housing with integral channel seal mechanism located around the lower face perimeter.

17. (Cancelled)

18. (Currently amended) A portable refrigeration container according to claim 10 having an integrated refrigeration housing located (moulded) as part of the external surface and contains the heat rejection side of the refrigeration module.

19. (Currently amended) A portable refrigeration container according to claim 18 having a cold storage refrigeration coil mounted to the lid and having connectors for enabling the refrigeration cycle components to be in fluid communication with each other.

20. (Cancelled)

21. (Cancelled)

22. (Currently amended) A portable refrigeration container according to claim 10 having super thermal insulation wall assembly construction such as vacuum insulation panels.

23. (Currently amended) A collapsible refrigerated display case assembly including a base, a plurality of dismantlable walled assemblies able to be mounted on the base to form a refrigerated container volume wherein the base is a universal base refrigeration module which can be easily assembled or

disassembled with one of the plurality of walled assemblies to form different configurations.

24. (Cancelled)

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25. (Currently amended) A collapsible refrigerated display case assembly according to claim 23 having the plurality of walled assemblies forming a top load display with the universal base refrigeration module, a rectangular collapsible side panel wall assembly, a perforated panel duct for mounting on the universal base refrigeration module to form the base of the refrigerated container volume and on which the wall assembly is mounted, and a lid assembly for closing the top of the refrigerated container volume.

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26. (Currently amended) A collapsible refrigerated display case assembly according to claim 23 having the plurality of walled assemblies forming a front load display comprising a universal base refrigeration module, a U shaped collapsible side panel wall assembly, perforated panel duct for mounting on the universal base refrigeration module to form the base of the refrigerated container volume and on which the wall assembly is mounted, shelving for fitting into the U shape wall assembly, and a door assembly and a lid assembly for closing the front and top of the refrigerated container volume and the front load door assembly frame comprises two vertical side members with 'U'channels which interface (slide into) with the side panel vertical square edged rails and top and bottom cross members (rectangular) interface with the base and lid mating surfaces (channels) and a removable hinged sealed door with insulated transparent window (single/multiple air cavity) is attached to the frame to allow for product view and access and the lid is a thermally insulated housing with integral seal mechanism located around the lower face perimeter (channel).

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27. (original) A collapsible refrigerated display case assembly according to claim

26 wherein in the front load display case configuration the universal base
refrigeration module is partitioned into two thermally insulated zones-high
temperature for heat dissipation and low temperature for cooling effect-with
airflow and ventilation paths and the base assembly open face is sealed by a
5 lid having an integral seal mechanism located around the upper face perimeter
and including integrated ducts/vents for return and supply of air to the
universal base refrigeration module.

10 28. (Currently amended) A collapsible refrigerated display case assembly
according to claim 23 having the base housing a vapour compression
refrigeration system comprising the following components, in a high
temperature zone: a compressor, a condensate drain tray with coil (to
contain/evaporate water condensate and desuperheat compressor discharge
vapour), a heat rejection assembly (condenser coil with fan), a filter drier, and
15 a refrigerant control mechanism; and comprising in a low temperature zone: a
heat sink assembly (evaporator coil with fan), accumulator and temperature
control and wherein in assembled form all refrigeration cycle components are
in fluid communication with each other via plumbing.

20 29. (Currently amended) A collapsible refrigerated display case assembly
according to claim 23 wherein the wall assembly includes hinged thermally
insulated side panels (i. e. fabricated/moulded) with mitred (i.e.45) corners
including seal mechanism in a concertina configuration are designed to
collapse and open to forme a90 angular ('U') shape, and the hinged thermally
25 insulated side panels (i. e. fabricated/moulded) have mitred (i.e.45°) corners
including seal mechanism in a concertina configuration are designed to
collapse and open to forme a rectangular shape and the horizontal top and
bottom end surfaces interface and seal against the refrigeration base and lid
mating surfaces (channels).

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30. (Currently amended) A collapsible refrigerated display case assembly

according to claim to 23 having the horizontal top and bottom end surfaces interface and seal against the refrigeration base and lid mating surfaces (channels) and the inner side walls have several parallel rails designed to support removable product display shelving and the open face inner side wall edges each have vertical square edged rails designed to interface with the door assembly side channels and having a perforated panel duct is located around the discharge air vent and rear panel inner face which panel is designed to uniformly distribute refrigerated air.

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Currently amended) A collapsible refrigerated display case assembly according to claim 25 wherein in the top load display case configuration the universal base refrigeration module (i.e. fabricated/ moulded) is partitioned into two zones (high temperature and low temperature) with airflow and ventilation paths and thermally insulated between the two and the base assembly open face is sealed by a lid (i.e. fabricated/moulded) comprising an integral seal mechanism located around the upper face perimeter (channel) including integrated ducts/vents (return and supply air) and the base assembly houses a vapour compression refrigeration system comprising the following components, in the high temperature zone: a compressor, a condensate drain tray with coil (to contain/evaporate water condensate and de-superheat compressor discharge vapour), a heat rejection assembly (condenser coil with fan), a filter drier, a refrigerant control mechanism and in the low temperature zone: a heat sink assembly (evaporator coil with fan), accumulator and temperature control and the refrigeration cycle components are in fluid communication with each other (via plumbing).

35. (Cancelled)

36. (Cancelled)

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37. (Currently amended) A collapsible refrigerated display case assembly according to claim 34 wherein a perforated panel duct (i.e. fabricated/ moulded) located around the discharge air vent and rear panel inner face is designed to uniformly distribute refrigerated air

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38. (Currently amended) A collapsible refrigerated display case assembly according to claim 37 wherein the top load lid housing (i.e. fabricated/ moulded) with integral seal mechanism located around the lower face perimeter (channel) interface with the insulated side panels and a removable hinged sealed lid (i.e. fabricated/ moulded) with insulated transparent window (single/multiple air cavity) is attached to the housing to allow for product view and access.

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39. (Cancelled)

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